

Fig. 1

FIG. 1  
 1 MODULATION SIGNAL  
 2 MODULATION CIRCUIT  
 4 MONITOR PD  
 5 TEMPERATURE SENSOR  
 6 TEMPERATURE DETECTING CIRCUIT  
 7 AVERAGE DRIVING CURRENT CONTROL CIRCUIT

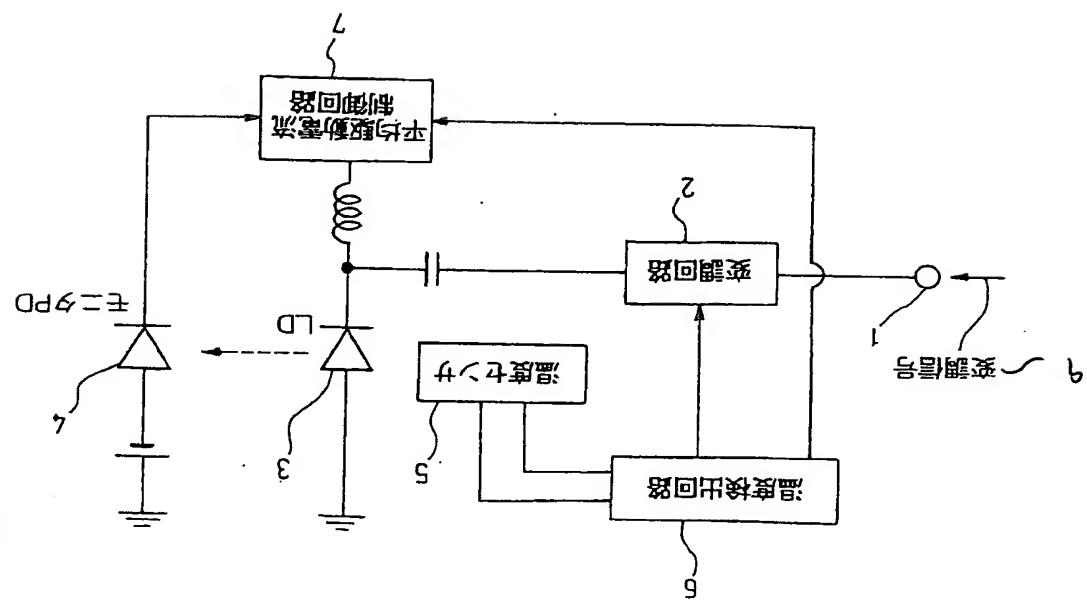


Fig. 2

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FIG. 2  
 a: OPTICAL OUTPUT  
 b: TEMPERATURE  
 c: PRESENT INVENTION

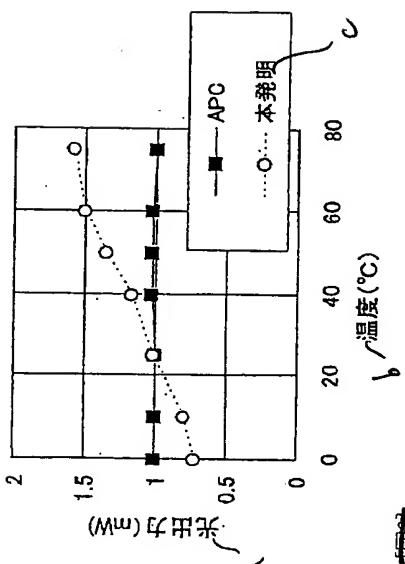


FIG. 3  
 a: RELAXATION OSCILLATION FREQUENCY  
 b: TEMPERATURE  
 c: PRESENT INVENTION

FIG. 4  
 a: SLOPE EFFICIENCY  
 b: TEMPERATURE

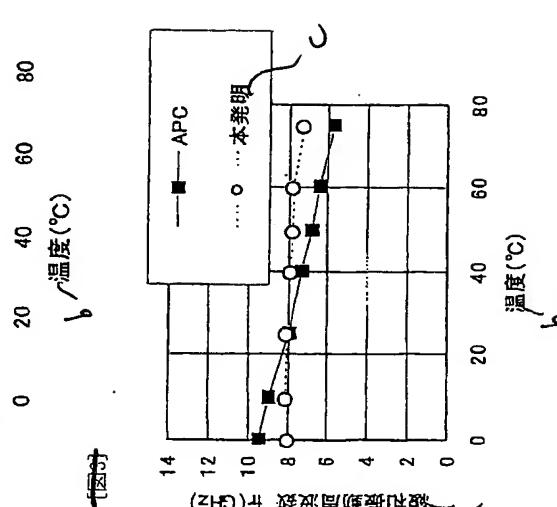


Fig. 4

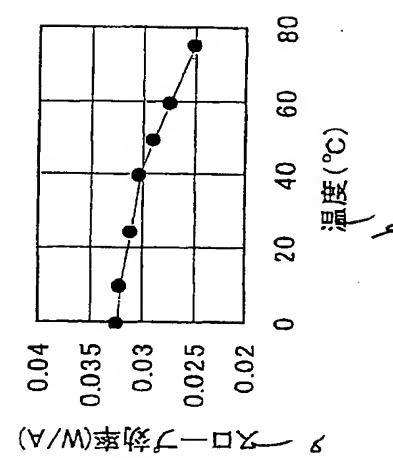


Fig. 5

図5

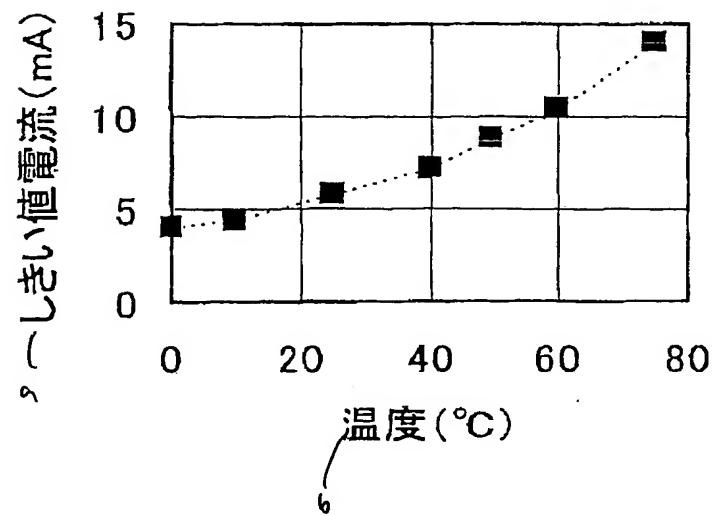


FIG. 5

— THRESHOLD CURRENT  
— TEMPERATURE

図6  
Fig. 6

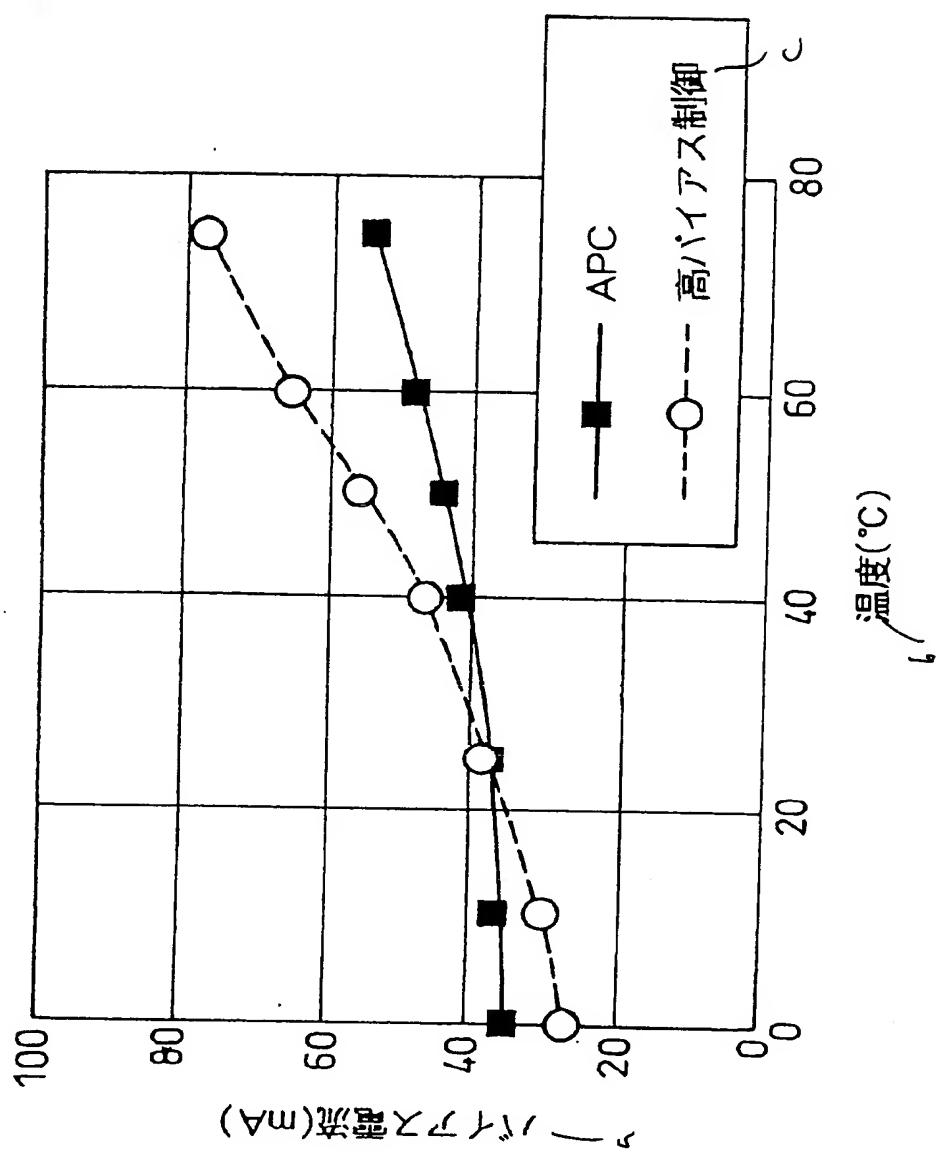


FIG. 6  
 a: BIAS CURRENT  
 b: TEMPERATURE  
 c: HIGH BIAS CONTROL

Fig. 7  
[図7]

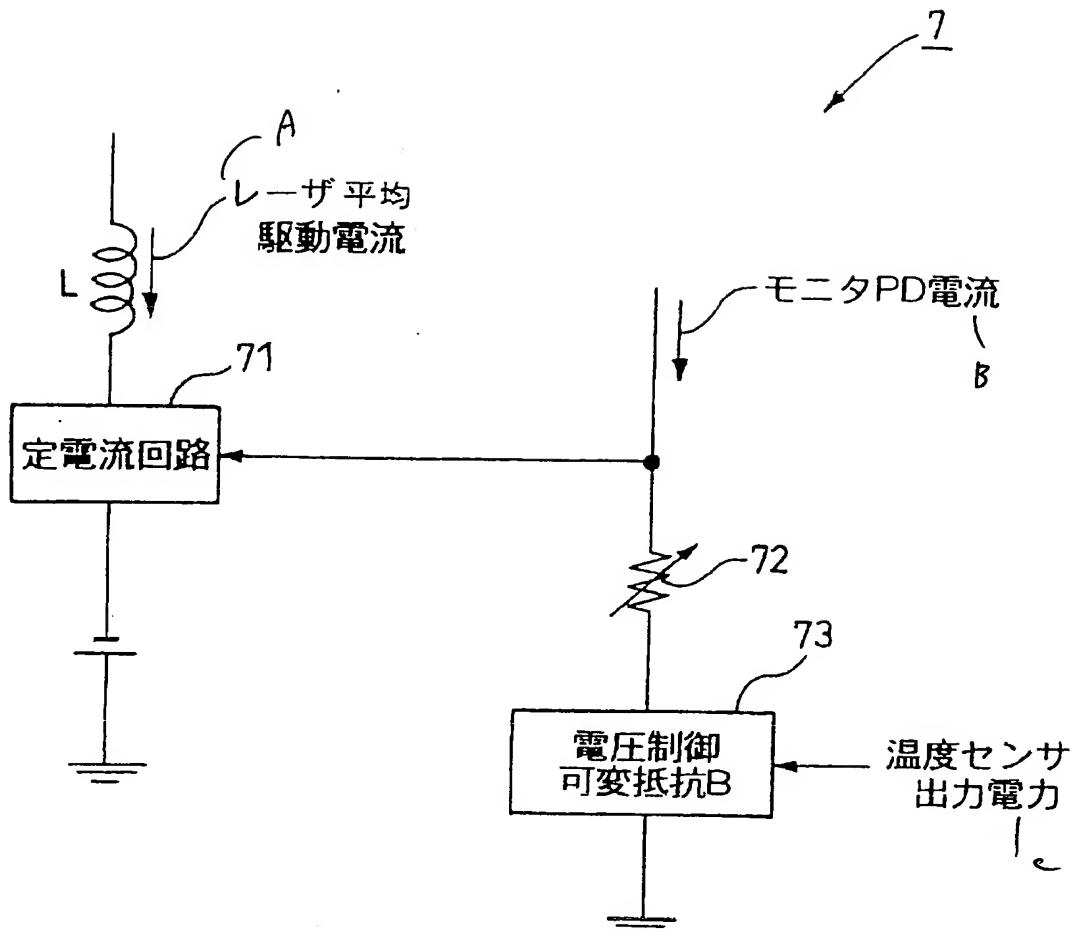


FIG. 7

71 CONSTANT CURRENT CIRCUIT

73 VOLTAGE CONTROL TYPE VARIABLE RESISTOR B

A LASER AVERAGE DRIVING CURRENT

B MONITOR PD CURRENT

C TEMPERATURE SENSOR OUTPUT POWER

Fig. 8

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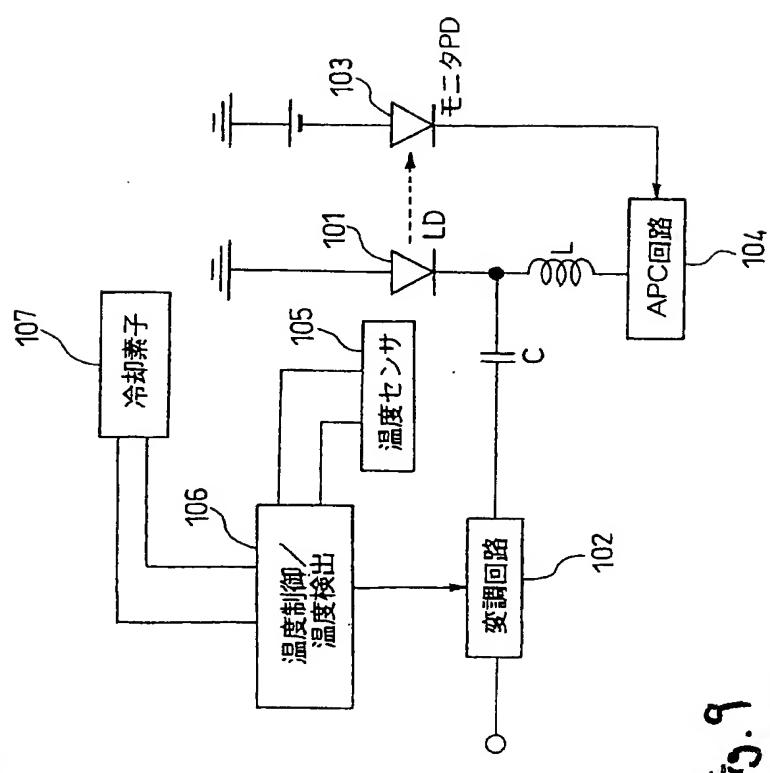
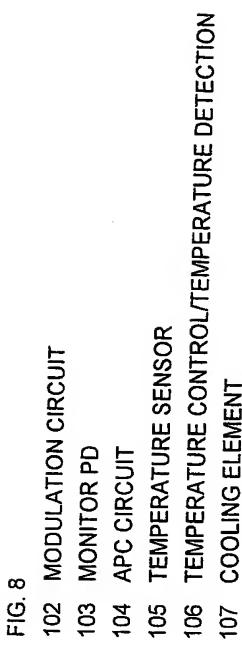


FIG. 9  
 DRIVING CURRENT  
 TEMPERATURE  
 APC CONTROL

Fig. 9

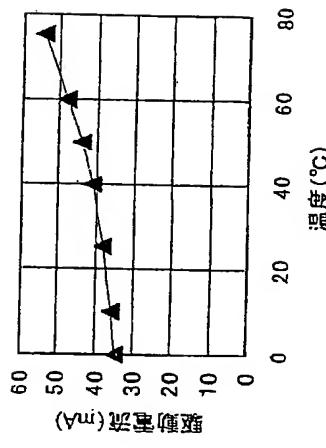


Fig. 10  
[図10]

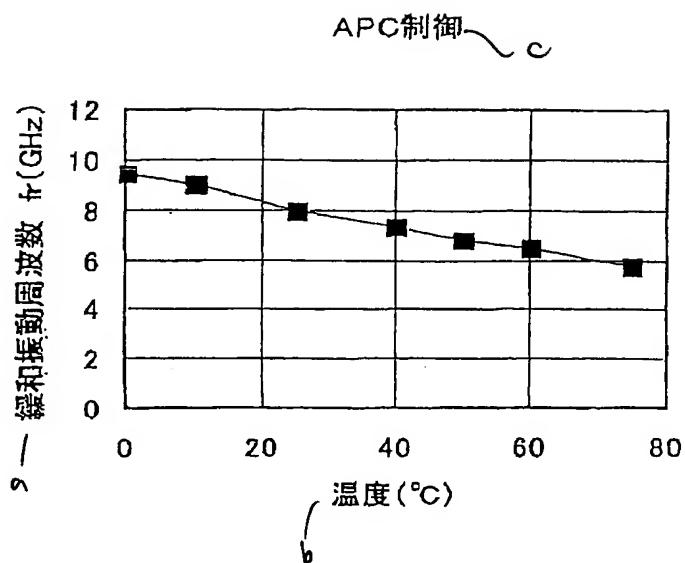


FIG. 10  
 $\alpha$ -RELAXATION OSCILLATION FREQUENCY  
 $\beta$ -TEMPERATURE  
 $\gamma$ -APC CONTROL